

**DEPARTMENT OF TRANSPORTATION**

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January 15, 2002

11-SD-5,56,805-Var  
11-0301U4  
ACIM-X073(059)N  
STPL-6066(039)N

Addendum No. 4

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in SAN DIEGO COUNTY AT VARIOUS LOCATIONS.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on January 24, 2002.

This addendum is being issued to revise the Project Plans, the Notice to Contractors and Special Provisions and the Proposal and Contract.

Project Plan Sheet 222 is revised as follows:

The details labeled "SLOPE PAVING (PAVERS)" and "SLOPE PAVING" are deleted.

Project Plan Sheet 539 is revised as follows:

The table "MINOR CONCRETE (TEXTURED PAVING)" is revised as follows:

MINOR CONCRETE (TEXTURED PAVING)		
LINE	STATION LIMITS	m2
"CMR"	1+40.00 - 2+10.00	347.08
"CMR"	4+20.00 - 5+40.00	187.18
TOTAL		534.26

The table "MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)" is revised as follows:

All quantities for "PCC SLOPE PAVING" are deleted, and the total quantity for "Minor Concrete (Miscellaneous Construction)" is revised from 1097.51 m3 to 279.33 m3.

Project Plan Sheet 1026 is revised as follows:

The quantity for "JOINT SEAL ASSEMBLY (MR 241 MM - 320 MM)" is revised from 12 m to 24 m.

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In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the table in the third paragraph is revised as follows:

Parcel Number	Clearance Date
30846	03/30/2002
31222-24	03/30/2002
31026-35	05/30/2002
31199	05/30/2002
26982	03/30/2002
31331	03/30/2002

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the fifth paragraph is revised as follows:

"Also the area east of Route 805 and Interstate 5 from Stations 466+50 to 469+60 "NT805", 470+20 to 472+80.60 "NT805", 529+57.60 to 534+40 "NB" and 545+50 to 548+20 "NB" Line, as shown on the plans, will not be available to the Contractor until after May 30, 2002."

In the Special Provisions, Section 10-1.40, "STONE COLUMNS," in the subsection "MATERIALS," the first two paragraphs are revised as follows:

"Stone column infill shall consist of hard, durable, angular, clean crushed rock, and shall be free from clay lumps, cementation, organic material, and other deleterious substances. Stone column infill shall have a Durability Index of not less than 40 in accordance with California Test Method 229 and shall conform to the following grading limits:"

Sieve Sizes	Percent Passing by Weight
38.1 mm (1-1/2 in)	100
25.4 mm (1 in)	80 - 100
19 mm (3/4 in)	0 - 85
2.36 mm (No. 8)	0 - 5

The sieve designations for the gradation limits are to conform to the ASTM Standards (ASTM C-136)."

In the Special Provisions, Section 10-1.40, "STONE COLUMNS," in the subsection "CONSTRUCTION" under the heading "Equipment," the first paragraph is revised as follows:

"The vibrating probes shall be of the bottom feed type and shall be rated by the manufacturer to provide at least 150 horsepower and 20 metric ton of horizontal force and designed to penetrate the soil vertically to the required depths. The vibrating probes and equipment required for the work shall be in good working order and shall be adequate to densify the soils in accordance with the specified acceptance criteria at the design spacing and to the depths required."

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In the Special Provisions, Section 10-1.40, "STONE COLUMNS," in the subsection "CONSTRUCTION," under the heading "Verification Testing," the sixth paragraph is revised as follows:

"Corrected cone tip resistance will be calculated using the following formula:

$$q_T = q_c + (1-a) \cdot u_{bt}$$

$$a = d^2/D^2$$

where

$q_T$  is corrected cone tip resistance, MPa

$q_c$  is cone tip resistance, MPa

$d$  is diameter of load cell support, m

$D$  is diameter of cone, m

$u_{bt}$  is pore water pressure reading behind the cone tip, MPa, measured at depth increments of 50 mm or less"

In the Special Provisions, Section 10-1.40, "STONE COLUMNS," in the subsection "CONSTRUCTION," under the heading "Verification Testing," the first sentence of the eighth paragraph is revised as follows:

"All strata, seams, lenses or pockets of soils exhibiting a Soil Behavior Type Index,  $I_c$ , greater than 2.6 will not be included in the calculation of the average corrected cone tip resistance."

In the Special Provisions, Section 10-1.41, "SOIL-CEMENT," in the subsection "SUBMITTALS," the second sentence of the third paragraph is revised as follows:

"The statement shall include at least 10 successful soil-cement projects within past five years."

In the Special Provisions, Section 10-1.41, "SOIL-CEMENT," in the subsection "SOIL-CEMENT QUALITY CONTROL," under the heading "Wet Grab Soil-Cement Samples," the first sentence of the third paragraph is revised as follows:

"Each retrieved soil-cement sample shall be of sufficient volume to produce a minimum of six full cylinders, 75 mm diameter by 150 mm."

In the Special Provisions, Section 10-1.41, "SOIL-CEMENT," in the subsection "SOIL-CEMENT QUALITY CONTROL," in the table "Wet Grab Soil-Cement Sample Sampling and Testing Schedule," the fourth row is revised as follows:

Number of cylinders	Per wet-grab soil-cement sample	6	75 mm diameter x 150 mm high cylinder
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In the Special Provisions, Section 10-1.41, "SOIL-CEMENT," in the subsection "VIBRATION, GROUND MOVEMENT, AND NOISE," the second paragraph is revised as follows:

"The Contractor shall take precautions such that vibration from the soil-cement work will not cause undue interference or damage to neighboring properties or buildings."

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In the Special Provisions, Section 10-1.41, "SOIL-CEMENT," in the subsection "SOIL-CEMENT," the first sentence of the fourth paragraph is revised as follows:

"The total unit weight of soil-cement samples shall be measured and shall be at least 15 kN/m<sup>3</sup> or as determined and approved by the Engineer based on the result of approved PPC submittal."

In the Special Provisions, Section 10-1.41, "SOIL-CEMENT," the subsection "MEASUREMENT," is revised as follows:

"MEASUREMENT

Soil-cement will be measured by the cubic meter. The volume shall be determined by multiplying the treated area, which are locations replaced with soil-cement, by the depth of the soil-cement elements. The quantity of soil-cement to be paid for shall be the quantity of soil-cement furnished and installed within the soil-cement treatment areas shown on the plans. Areas of overlapping and overdrilling will not be measured more than once."

In the Special Provisions, SECTION 10-1.86, "MISCELLANEOUS CONCRETE CONSTRUCTION," last paragraph is revised as follows:

"The contract price paid per square meter for minor concrete (textured paving) shall include full compensation for furnishing all labor, tools, equipment, and incidentals, and for doing all the work involved in texturing the minor concrete, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer."

In the Proposal and Contract, the Engineer's Estimate Items 158, 222, 225, and 249 are revised as attached.

To Proposal and Contract book holders:

Replace pages 10, 14, and 15 of the Engineer's Estimate in the Proposal with the attached revised pages 10, 14, and 15 of the Engineer's Estimate. The revised Engineer's Estimate is to be used in the bid.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the proposal.

Submit bids in the Proposal and Contract book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This office is sending this addendum by confirmed facsimile to all book holders to ensure that each receives it.

If you are not a Proposal and Contract book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,

ORIGINAL SIGNED BY

REBECCA D. HARNAGEL, Chief  
Office of Plans, Specifications & Estimates  
Office Engineer

Attachments

**ENGINEER'S ESTIMATE  
11-0301U4**

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
141 (F)	510800	PAVING NOTCH EXTENSION	M3	3		
142 (F)	511046	HEAVY BLAST TEXTURE	M2	110		
143 (F)	511063	FRACTURED FIN TEXTURE	M2	50		
144	511106	DRILL AND BOND DOWEL	M	67		
145 (S)	512255	FURNISH PRECAST PRESTRESSED CONCRETE BULB-TEE GIRDER (30 M -35 M)	EA	4		
146 (S)	512256	FURNISH PRECAST PRESTRESSED CONCRETE BULB-TEE GIRDER (35 M -40 M)	EA	8		
147 (S)	048799	ERECT PRECAST PRETENSIONED GIRDER	EA	12		
148	513553	RETAINING WALL (MASONRY WALL)	M2	27		
149 (S)	518050	PTFE BEARING	EA	8		
150 (S)	518051	PTFE SPHERICAL BEARING	EA	36		
151 (S)	519117	JOINT SEAL (MR 30 MM)	M	45		
152 (S)	519120	JOINT SEAL (MR 15 MM)	M	46		
153 (S)	519124	JOINT SEAL ASSEMBLY (MR 60 MM)	M	46		
154 (S)	519125	JOINT SEAL ASSEMBLY (MR 70 MM)	M	13		
155 (S)	519126	JOINT SEAL ASSEMBLY (MR 80 MM)	M	24		
156 (S)	519129	JOINT SEAL ASSEMBLY (MR 101 MM - 160 MM)	M	25		
157 (S)	519130	JOINT SEAL ASSEMBLY (MR 161 MM - 240 MM)	M	62		
158 (S)	519131	JOINT SEAL ASSEMBLY (MR 241 MM - 320 MM)	M	24		
159 (S)	519142	JOINT SEAL (MR 40 MM)	M	64		
160 (S)	519144	JOINT SEAL (MR 50 MM)	M	63		

**ENGINEER'S ESTIMATE  
11-0301U4**

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
221	729010	ROCK SLOPE PROTECTION FABRIC	M2	360		
222	731502	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	M3	280		
223	022665	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION) COLORED CONCRETE	M3	880		
224	731517	MINOR CONCRETE (GUTTER)	M3	26		
225	731530	MINOR CONCRETE (TEXTURED PAVING)	M2	540		
226 (F)	750001	MISCELLANEOUS IRON AND STEEL	KG	31 701		
227 (S-F)	750496	MISCELLANEOUS METAL (RESTRAINER - PIPE TYPE)	KG	5200		
228 (S-F)	750498	MISCELLANEOUS METAL (RESTRAINER - CABLE TYPE)	KG	14 530		
229 (S-F)	750501	MISCELLANEOUS METAL (BRIDGE)	KG	700		
230 (S-F)	750505	BRIDGE DECK DRAINAGE SYSTEM	KG	26 220		
231 (S)	800391	CHAIN LINK FENCE (TYPE CL-1.8)	M	5850		
232 (S)	802590	1.8 M CHAIN LINK GATE (TYPE CL-1.8)	EA	33		
233 (S)	802596	3.7 M CHAIN LINK GATE (TYPE CL-1.8)	EA	11		
234	820107	DELINEATOR (CLASS 1)	EA	250		
235	820110	MILEPOST MARKER	EA	46		
236	820118	GUARD RAILING DELINEATOR	EA	170		
237 (S)	832003	METAL BEAM GUARD RAILING (WOOD POST)	M	1300		
238 (F)	833125	CONCRETE BARRIER (TYPE 25)	M	5211		
239 (F)	833126	CONCRETE BARRIER (TYPE 25A)	M	1251		
240	833127	CONCRETE BARRIER (TYPE 25B)	M	180		

**ENGINEER'S ESTIMATE**  
**11-0301U4**

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
241 (S)	839521	CABLE RAILING	M	5700		
242 (S)	839553	END SECTION	EA	28		
243 (S)	839565	TERMINAL SYSTEM (TYPE SRT)	EA	35		
244 (S)	839568	TERMINAL ANCHOR ASSEMBLY (TYPE SFT)	EA	20		
245 (S)	839569	TERMINAL ANCHOR ASSEMBLY (TYPE CA)	EA	10		
246 (S)	839570	RETURN SECTION	EA	10		
247 (S)	839591	CRASH CUSHION, SAND FILLED	EA	6		
248 (S)	839603	CRASH CUSHION (ADIEM)	EA	1		
249	839701	CONCRETE BARRIER (TYPE 60)	M	5500		
250 (F)	839702	CONCRETE BARRIER (TYPE 60A)	M	518		
251	839703	CONCRETE BARRIER (TYPE 60C)	M	750		
252	839704	CONCRETE BARRIER (TYPE 60D)	M	3280		
253	839705	CONCRETE BARRIER (TYPE 60E)	M	1670		
254 (S)	840515	THERMOPLASTIC PAVEMENT MARKING	M2	3090		
255 (S)	840561	100 MM THERMOPLASTIC TRAFFIC STRIPE	M	18 300		
256 (S)	840563	200 MM THERMOPLASTIC TRAFFIC STRIPE	M	5560		
257 (S)	840564	200 MM THERMOPLASTIC TRAFFIC STRIPE (BROKEN 3.66 M - 0.92 M)	M	4760		
258 (S)	022666	200 MM THERMOPLASTIC TRAFFIC STRIPE (BROKEN 11.00M-3.5M)	M	350		
259 (S)	840656	PAINT TRAFFIC STRIPE (2-COAT)	M	208 000		
260	BLANK					